



Eurocell® 300FP.1



EPS

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Technical Data Sheet

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Product Description:

Eurocell® 300FP.1 is an “Expandable Polystyrene” material in the shape of almost spherical beads, containing a flame retardant additive (HBCD Free) and pentane as a blowing agent.

Typical properties:

Bead Size Range (mm): 1,25 – 2,50
Sieve Analysis: 1,25 mm – 2,50 mm, min. 92 %
Bulk Density: ≈ 615 kg/m³

Application:

Eurocell® 300FP.1 is an EPS class with flame retardant, which can be produced in density ranges between 10 kg/m³ and lower multiple expansion) suitable for block covering, which is cohered in a very good manner and ensuring rapid molding with its short cycle time.

Eurocell® 300FP.1 in general is used for heat insulation, blocks with low density, block cutting molds, block productions for construction application; it is quite good recognized for regrind addition allowing the flexibility applications i.e. foot impact and sound insulation.

Packaging:

All Eurocell® products are packed in standard big-bag packages of 1125 kg or octagonal cardboard boxes (octabins-non stackable) of 1.125 kg. The content is protected by an inner sealed plastic liner placed between the product and the container.

Storage:

Eurocell® 300FP.1 should be stored in well-ventilated storage areas with temperatures preferably not exceeding 25°C. It should be protected against unsuitable weather conditions and direct sun light.

Partially used containers should be closed as tight as original conditions, paying attention to avoid any space between the raw material and lining, and should be consumed in a short time. In order to maintain the expansion potential, it is recommended to start the transformation within one month after delivery, if the package is not opened.

Processing:

Beads expansion to block or mold shaped products is managed with steam (water vapor).

Eurocell® 300FP.1 can achieve density of 10 kg/m³ and below.

The minimum density achievable may vary depending on the expander type and process conditions.

The recommended intermediate aging time in silos is 3-12 hours depending on the density, the atmospheric and process conditions.

For any further request please contact our technical support department.

Safety and handling:

Please refer to the SDS prior to usage.

General information:

Eurocell® 300FP.1 should be kept away from sparks and flames during processing and storage. Adequate ventilation on floor level is also required during these phases. The grounding of the entire equipment and machinery is essential, in order to prevent static electricity on the conveying lines and during processing.

Safety precautions / measures are included in the “Safety Data Sheet” (SDS).

Regarding fire reaction, EPS products made of Eurocell® 300FP.1 (not mixed with other materials) and with a density below 10 kg/m³ fulfill the requirements of class E according to EN 13501-1. (Certified by GSH Güteschutzgemeinschaft Hartschaum e.V)

Depending on the obtained density and atmospheric conditions, it should be considered that EPS products by Eurocell® 300FP.1 may contain pentane gases after processing and should be matured for sufficient time in order to ensure pentane’s removal. EPS flame retardant ability can be achieved only after pentane’s total elimination.

Eurocell® 300FP.1 is not permitted to be used in food contact applications.

Eurocell® 300FP.1 is produced in Aliaga, Türkiye.

grades	beads size (mm)	application density (kg/m ³)	application	
			blocks	injection
flame retardant grades				
300FP.1	1.25 - 2.5	< 10*	+	-
200FPL.1	0.9 - 1.25	10* - 14	+	-
200FP.1	0.9 - 1.25	15-22	+	-
150FP.1	0.7 - 0.9	16-24	+	+
100FP.1	0.4 - 0.7	22-35	+	+
50FP.1	0.25 - 0.6	30-60	+	+

*multiple expansion